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Use of high grade amorphous polypropylene - as an additive to isotactic polypropylene to improve the stability to ionising radiation

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Patent Family

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JP 10060193	A	19980303	JP 9788315	A	19970407	199819	
AT 9600621	A	19991215	AT 96621	A	19960409	200004	
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Patent Details

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Abstract:

EP 801104 A

Use of a high grade amorphous polypropylene consisting of a homopolymer of propylene or a copolymer of propylene with one or more alpha -olefins with a propylene content of at least 80 mol. %, having a melt enthalpy of at most 40 J/g and a melt flow index of 0.1-100 g/10 min., as additive component to a high- grade isotactic polypropylene consisting of a homopolymer of propylene or a copolymer of propylene with one or more alpha - olefins with a propylene content of at least 50 mol. %,

with an isotacticity index of over 90 and a melt flow index of 0.1-100 g/10 min., to improve the stability to ionising radiation.

USE - The polypropylene blends are especially useful in applications where stability to ionising radiation such as e.g. beta - or gamma -rays, X-rays, etc. is important in addition to the known advantageous properties of polypropylene (high m.pt., low cost, good technological properties, can be steam sterilised at 121 deg. C) which make the modified material especially useful in medical, pharmaceutical and foodstuffs applications.

ADVANTAGE - The amorphous polypropylene content gives polypropylene blends with better resistance to reduction of molecular weight, discolouration, yellowing or embrittlement normally encountered after exposure to ionising radiation, without incorporating large amounts of foreign additive materials.

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